## XP-002218566

AN - 1987-309423 [44]

A - [001] 014 028 034 04- 05- 055 059 074 075 076 077 079 081 085 086 128 130 132 133 153 175 185 191 231 28& 316 332 398 402 414 431 432 443 473 477 52& 532 533 546 57& 575 582 583 589 595 623 624 681 688 721

AP - JP19860059343 19860319; JP19860059343 19860319

CPY - JAPC

- JAPC

DC - A26 J01

DR - 0270-U 0271-U 0272-U 0304-U 0437-U

FS - CPI

IC - B01D53/02; B01D53/06; B01J20/26; C02F1/28

KS - 0013 0036 0037 0203 0231 0356 0419 0496 0503 0601 0643 1124 1166 1173 2020 2318 2393 2422 2427 2437 2507 2569 2585 2647 2653 2726 2733 3124 3193

MC - A05-J07 A12-W11D J01-E03C

PA - (JAPC ) NIPPON SHOKUBAI KAGAKU KOGYO CO LTD

- (JAPC ) NIPPON SHOKUBAI KAGAKU KOGYO

PN - JP62216641 A 19870924 DW198744 005pp

- JP4017089B B 19920325 DW199216 005pp

PR - JP19860059343 19860319

XA - C1987-131672

XIC - B01D-053/02; B01D-053/06; B01J-020/26; C02F-001/28

- AB J62216641 Adsorbent for acidic acids, surfactant and heavy metals etc. comprises polyethylene imine with mol.wt. of over 5000 supported on porous resin.
  - Pref. porous resins used as supports are obtd. by copolymerising methacrylic acid, styrene sulphonic acid, sulphoethyl(meth)-acrylate, 2-acrylamide-2- methylpropane sulphonic acid, diethylglycol di(meth)acrylate and divinyl benzene etc. To strengthen supporting force between polyethylene imine and support, specific surface area of the support must be over 50 m2/g, e.g. over 1000 m2/g. Under 100 pts.wt. e.g. under 50 pts.wt. of polyethylene imine are supported on 100 pts.wt. of the support. Adsorbent is pref. produced by immersing porous support in the soln. in which proper amt. of polyethylene imine is dissolved in a solvent and then removing the solvent. Solvents used are CH3OH, C2H5OH, CH3CH(OH)CH3, CH3CH2CH2CH2OH, CH3COCH3 and C2H5OCH3
- ADVANTAGE Polyethylene imine is strongly supported on a support by a simple procedure because of strong force between polyethylene imine and the support, the adsorbent can be used in water. As free polyethylene imine on the support is little, amts. of polyethylene imine supported are controlled.(0/0)
- IW ADSORB ACIDIC GAS SURFACTANT HEAVY METAL COMPRISE POLYETHYLENE IMINE SPECIFIED MOLECULAR WEIGHT SUPPORT POROUS RESIN
- IKW ADSORB ACIDIC GAS SURFACTANT HEAVY METAL COMPRISE POLYETHYLENE IMINE SPECIFIED MOLECULAR WEIGHT SUPPORT POROUS RESIN NC - 001

OPD - 1986-03-19

ORD - 1987-09-24

PAW - (JAPC ) NIPPON SHOKUBAI KAGAKU KOGYO CO LTD

- (JAPC ) NIPPON SHOKLIBAL KACAKIL KOOYO

TI - Adsorbent for acidic gases, surfactant and heavy metals - comprises polyethylene imine of specified mol. wt, supported on porous resin